DAZAP1 (D-9): sc-373987

BACKGROUND

DAZAP1 (deleted in azoospermia-associated protein 1) is a 407 amino acid RNA-binding protein that interacts with DAZ (deleted in azoospermia), a gene with multiple protein products that are deleted in infertile men. Localized to the nucleus of round spermatids and to the cytoplasm of elongated spermatids, DAZAP1 contains two RNP motifs and is thought to be essential for normal spermatogenesis. Binding of DAZAP1 to DAZ mRNA induces translation of DAZ proteins that are required for germ cell development. When DAZAP1 is phosphorylated, it dissociates from DAZ mRNA and prevents proper protein translation, thereby regulating the expression of DAZ proteins. Additionally, DAZAP1 can fuse to the DNA-binding protein MEF-2D, a fusion that disrupts proper signaling pathways and may, therefore, be involved in leukemogenesis. DAZAP1 is expressed predominantly in the testis, with weak expression observed in the thymus, heart, liver, brain and pancreas. Two isoforms of DAZAP1 exist due to alternative splicing events.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: DAZAP1 (human) mapping to 19p13.3; Dazap1 (mouse) mapping to 10 C1.

SOURCE

DAZAP1 (D-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 347-379 near the C-terminus of DAZAP1 of human origin.

PRODUCT

Each vial contains 200 µg IgGk kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DAZAP1 (D-9) is available conjugated to agarose (sc-373987 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373987 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-373987 PE), fluorescein (sc-373987 FITC), Alexa Fluor® 488 (sc-373987 AF488), Alexa Fluor® 546 (sc-373987 AF546), Alexa Fluor® 594 (sc-373987 AF594) or Alexa Fluor® 647 (sc-373987 AF647), 200 µg/ml, for WB (RGB), IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-373987 AF680) or Alexa Fluor® 790 (sc-373987 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-373987 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

DAZAP1 (D-9) is recommended for detection of DAZAP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

DAZAP1 (D-9) is also recommended for detection of DAZAP1 in additional species, including avian.

Suitable for use as control antibody for DAZAP1 siRNA (h): sc-62194, DAZAP1 siRNA (m): sc-62195, DAZAP1 shRNA Plasmid (h): sc-62194-SH, DAZAP1 shRNA Plasmid (m): sc-62195-SH, DAZAP1 shRNA Lentiviral Particles: sc-62194-V and DAZAP1 shRNA (m) Lentiviral Particles: sc-62195-V.

Molecular Weight of DAZAP1: 45 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, PC-3 cell lysate: sc-2220 or F9 cell lysate: sc-2245.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGk BP-HRP: sc-516102 or m-IgGk BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGk BP-FITC: sc-516140 or m-IgGk BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359880. 4) Immunohistochemistry: use m-IgGk BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA

[Image 332x169 to 403x234]

[Image 442x160 to 568x251]

[Image 494x679 to 555x752]

[Image 507x239]

[Image 561x223]

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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